

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P510521

Luminaire Tested: **CTN-CA10-630-722-U-T4**

Issue Date: 4/6/2021

Test Information

Test Method: LM-79-08
Report Number: P510521
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2102-151-12)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/6/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: CTN-CA10-630-722-U-T4
Description: CELESTEON HIGH MAST LUMINAIRE
Light Source: (10) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 74199 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Luminous Opening: Circular (Dia: 2.08' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B5 - U0 - G5

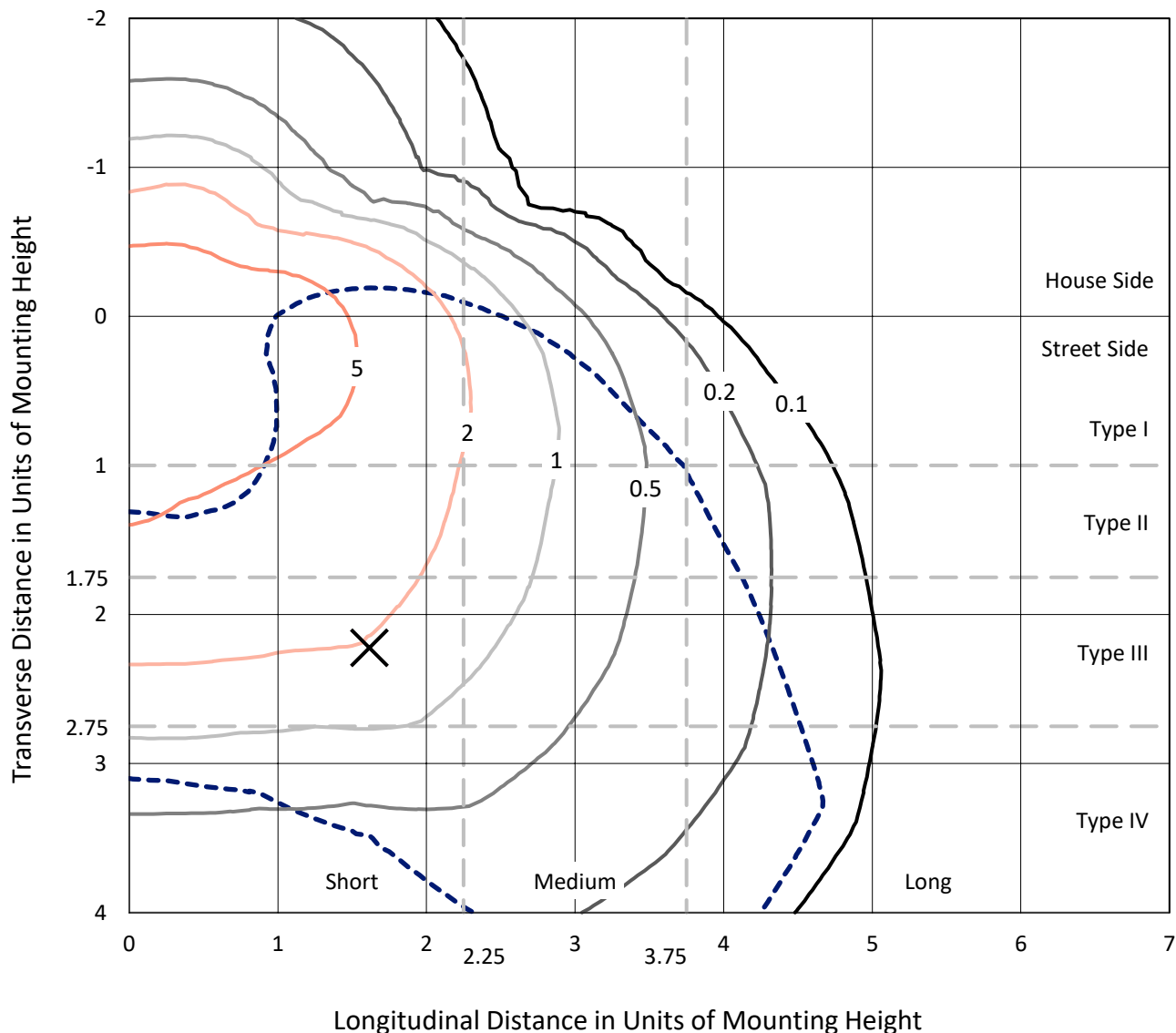
Input Watts (W): 631.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

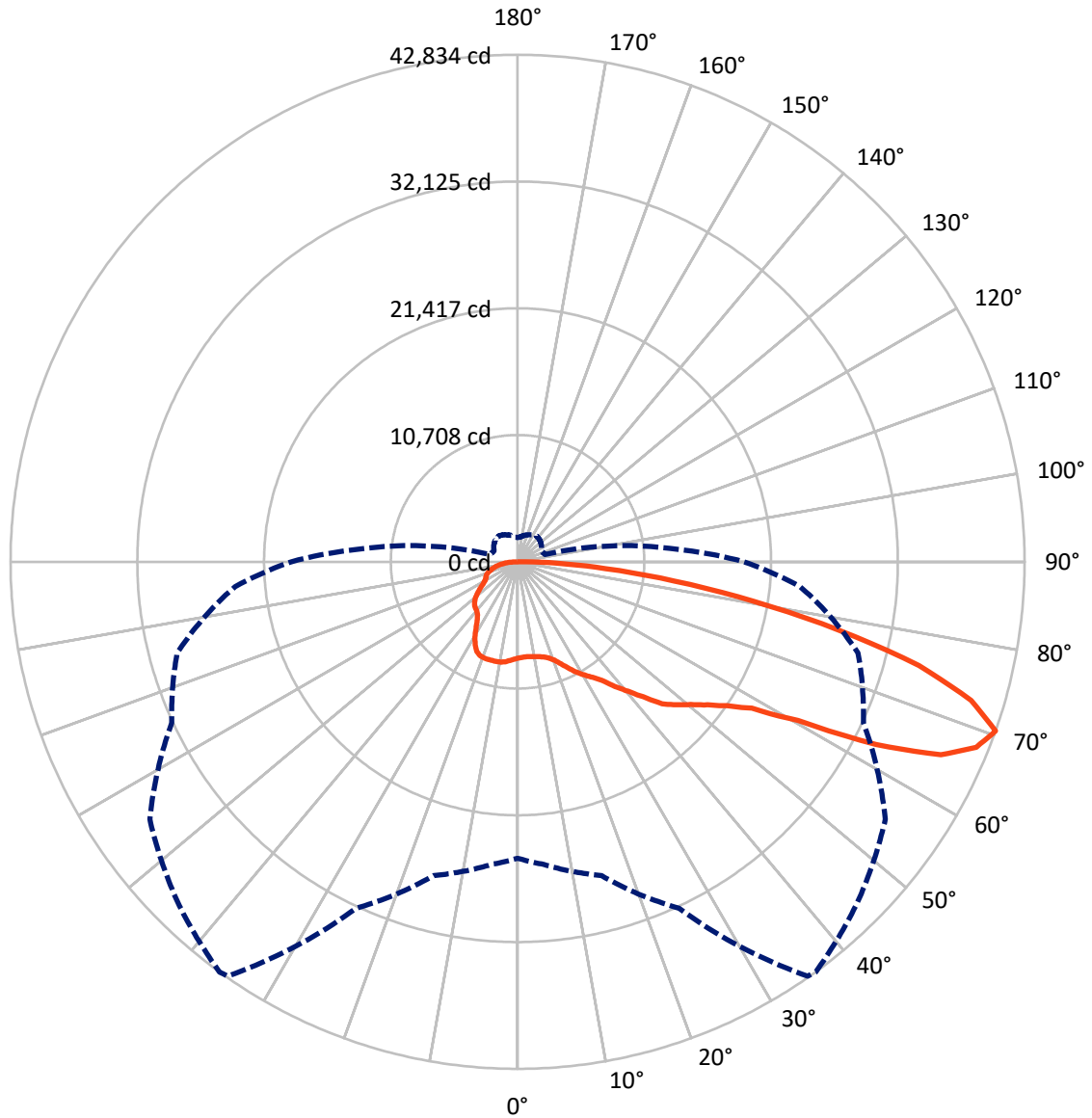
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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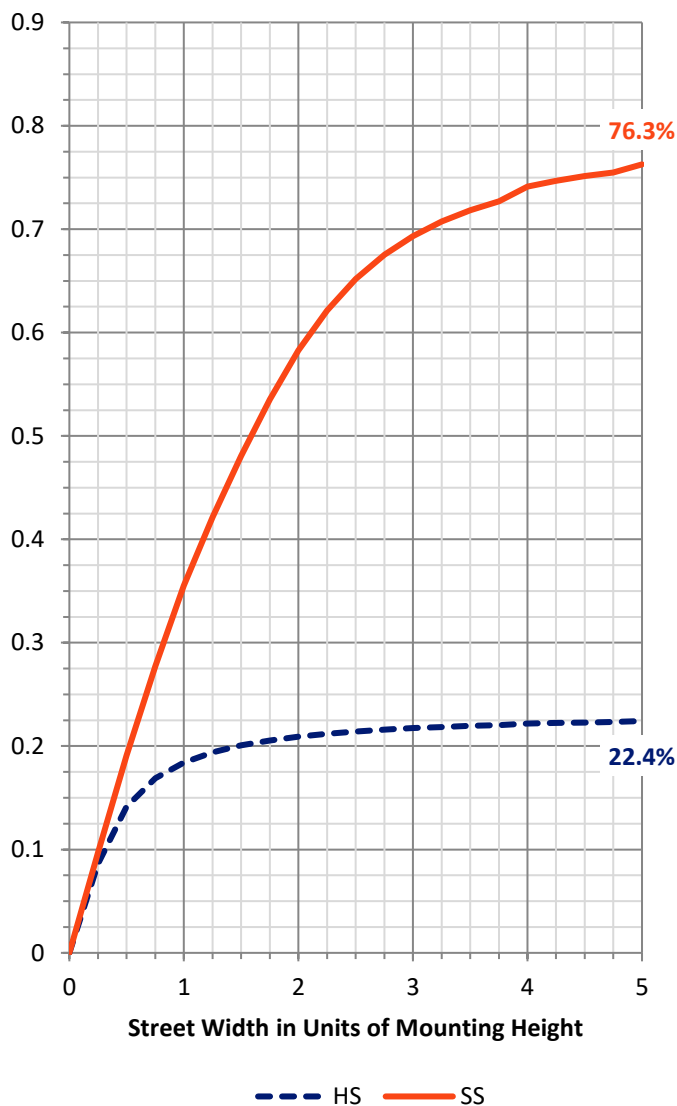
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16905.8	0.0	16905.8
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	57293.2	0.0	57293.2
	% Fixture	77.2	0.0	77.2
Total	Lumens	74199.0	0.0	74199.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	787.4	1.1
10°-20°	2434.1	3.3
20°-30°	4390.6	5.9
30°-40°	6800.3	9.2
40°-50°	10329.6	13.9
50°-60°	14317.5	19.3
60°-70°	18617.7	25.1
70°-80°	13749.0	18.5
80°-90°	2772.9	3.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	74199.0	100.0
0°-180°	74199.0	100.0

Coefficient of Utilization

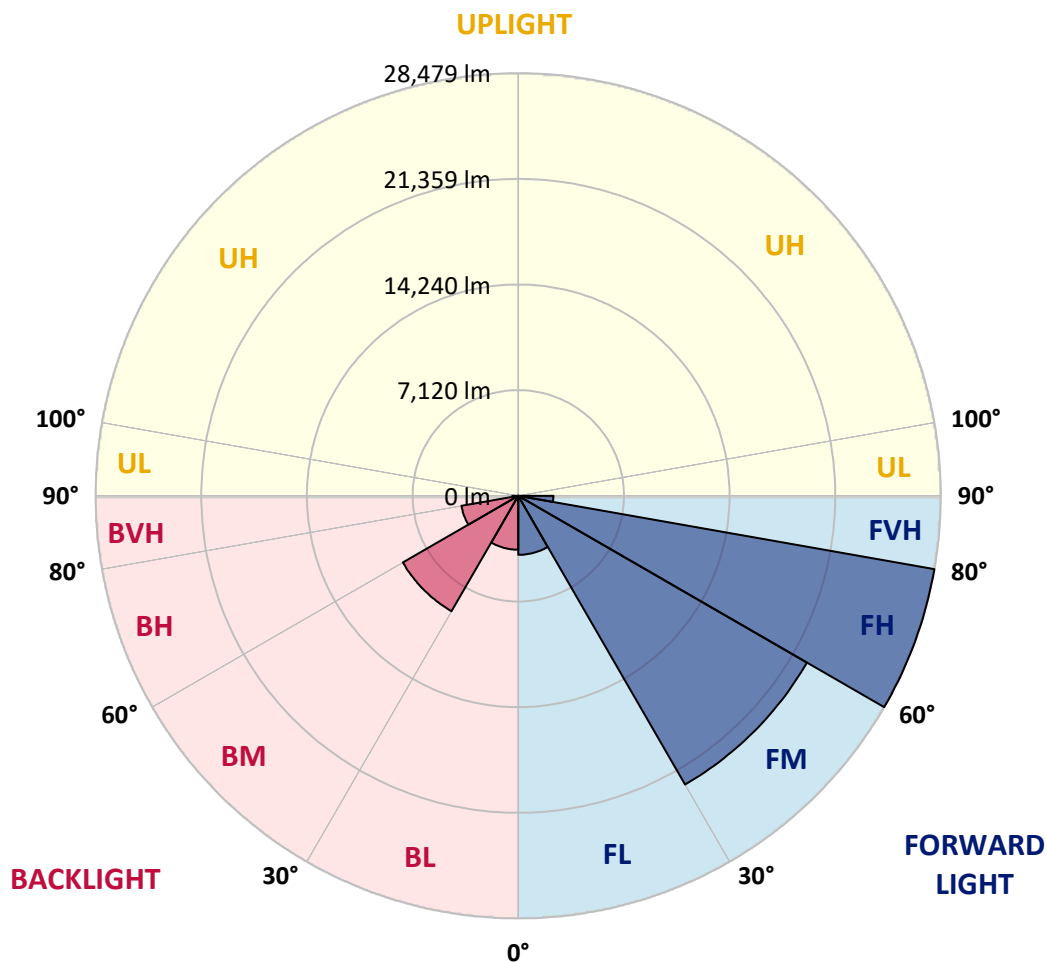


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3977.8	5.4			
FM (30°-60°)	22467.3	30.3			
FH (60°-80°)	28479.2	38.4			G5
FVH (80°-90°)	2368.9	3.2			G5
BL (0°-30°)	3634.3	4.9	B4/5000		
BM (30°-60°)	8980.1	12.1	B5		
BH (60°-80°)	3887.4	5.2	B4/5000		G4/5000
BVH (80°-90°)	403.9	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	8127.0	8127.0	8127.0	8127.0	8127.0	8127.0	8127.0	8127.0	8127.0	8127.0	8127.0
2.5°	8077.8	8067.1	8060.9	8073.2	8077.8	8079.4	8082.5	8079.4	8071.7	8099.3	8133.1
5°	8079.4	8073.2	8060.9	8050.2	8050.2	8050.2	8051.7	8087.1	8102.4	8099.3	8140.8
7.5°	8091.7	8087.1	8064.0	8056.3	8074.8	8080.9	8111.6	8100.9	8117.8	8145.4	8180.8
10°	8093.2	8087.1	8067.1	8084.0	8136.2	8145.4	8159.3	8190.0	8196.1	8229.9	8265.3
12.5°	8108.6	8108.6	8116.2	8153.1	8208.4	8219.2	8271.4	8296.0	8332.9	8349.8	8392.8
15°	8190.0	8188.5	8206.9	8248.4	8337.5	8343.6	8408.1	8481.9	8509.5	8551.0	8620.2
17.5°	8383.6	8392.8	8394.3	8425.0	8531.0	8534.1	8640.1	8709.3	8772.2	8846.0	9004.2
20°	8842.9	8826.0	8807.6	8807.6	8849.1	8870.6	8952.0	9062.6	9191.7	9322.2	9508.1
22.5°	9420.6	9454.4	9386.8	9351.4	9371.4	9346.8	9408.3	9497.4	9647.9	9843.0	10078.1
25°	10110.4	10113.4	10108.8	9965.9	9921.4	9936.8	9987.5	10070.4	10270.1	10425.3	10766.4
27.5°	10783.3	10769.4	10720.3	10569.7	10526.7	10548.2	10546.7	10775.6	10979.9	11178.1	11579.1
30°	11394.7	11431.6	11344.0	11090.5	11095.1	11092.1	11162.7	11457.7	11831.0	12199.7	12611.4
32.5°	12473.2	12361.0	12242.7	11741.9	11649.7	11639.0	11680.5	12119.8	12672.9	13295.1	13789.8
35°	13488.7	13461.0	13344.3	12835.7	12302.7	12293.4	12236.6	12771.2	13548.6	14700.8	15318.4
37.5°	14527.2	14487.3	14372.0	13938.8	13408.8	13358.1	12880.3	13465.6	14516.5	16344.6	17224.9
40°	15765.5	15740.9	15562.7	15008.1	14464.2	14387.4	13891.2	14195.4	15737.8	18533.9	19154.5
42.5°	16851.6	16847.0	16642.7	16128.0	15665.6	15588.8	15166.3	15482.8	17435.4	20678.5	21044.2
45°	17649.0	17770.3	17779.5	17486.1	17166.6	17099.0	16986.8	17423.1	19398.8	22625.0	22571.3
47.5°	18321.9	18426.3	18317.3	18166.7	18057.6	18062.2	18235.8	19102.3	21337.6	24321.1	23903.2
50°	19446.4	19381.9	18815.0	18725.9	18864.2	18945.6	19449.5	20915.1	23557.6	25912.7	25098.5
52.5°	21068.8	20821.4	19709.1	19527.9	20051.7	20082.5	20884.4	22535.9	25776.0	27278.5	26192.3
55°	23288.7	23084.4	21827.7	20990.4	21254.6	21462.0	22591.2	24196.7	27587.3	28562.8	27034.2
57.5°	26570.2	26585.6	25560.9	24000.0	23101.3	23322.5	24204.3	25811.3	29083.6	29638.2	27559.6
60°	29200.4	29687.4	29381.6	28668.8	27378.3	27227.8	26556.4	27493.5	30361.8	30552.3	28062.0
62.5°	31023.9	31245.2	32296.0	32446.6	33921.4	33984.4	30768.9	29464.6	31766.0	31151.5	28168.0
65°	30931.8	31068.5	32729.2	34751.0	39107.9	39303.0	37421.1	32446.6	32727.7	31418.8	27859.2
67.5°	28777.9	28983.7	31094.6	34873.9	41871.7	41798.0	40604.3	36597.6	33044.2	30990.2	26387.4
70°	25037.0	25671.5	27444.4	32282.2	42735.1	42833.5	40633.5	37923.5	32228.4	29778.0	23933.9
72.5°	20635.5	20835.2	22509.8	27923.7	40211.0	40066.6	38968.1	36173.6	30753.6	27585.7	19640.0
75°	15693.3	15693.3	17721.2	22253.2	34531.3	35038.3	35465.4	32763.0	27244.7	22483.7	13373.5
77.5°	10417.6	10790.9	12424.0	16722.6	27333.8	27708.6	29183.5	27926.8	22307.0	16487.5	6108.3
80°	5526.1	5572.1	7323.5	11112.0	19550.9	20257.6	22285.5	21538.9	16045.1	7724.5	1544.0
82.5°	1932.7	2109.3	3220.1	6440.2	12881.8	13322.8	14783.8	12798.9	5667.4	1709.9	854.2
85°	960.2	994.0	1418.0	3066.4	7252.9	7466.4	8637.1	4985.3	912.6	746.6	580.7
87.5°	462.4	473.2	543.8	1096.9	3152.5	3298.4	3492.0	1622.3	338.0	284.2	252.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8127.0	8127.0	8127.0	8127.0	8127.0	8127.0	8127.0	8127.0	8127.0	8127.0	8127.0
2.5°	8140.8	8154.7	8180.8	8188.5	8170.0	8203.8	8236.1	8265.3	8263.7	8274.5	8312.9
5°	8159.3	8188.5	8216.1	8265.3	8312.9	8340.5	8366.7	8391.2	8398.9	8422.0	8445.0
7.5°	8216.1	8245.3	8308.3	8394.3	8397.4	8466.5	8511.1	8518.8	8524.9	8524.9	8578.7
10°	8303.7	8357.4	8458.8	8518.8	8572.5	8549.5	8595.6	8566.4	8544.9	8554.1	8591.0
12.5°	8454.2	8501.9	8647.8	8713.9	8664.7	8655.5	8609.4	8543.3	8468.1	8460.4	8494.2
15°	8690.8	8779.9	8910.5	8973.5	8850.6	8741.5	8586.4	8451.2	8305.2	8251.4	8273.0
17.5°	9071.8	9179.4	9322.2	9279.2	9054.9	8839.8	8583.3	8297.5	8014.9	7818.2	7868.9
20°	9629.5	9709.4	9826.1	9652.5	9325.3	8970.4	8549.5	8097.8	7620.0	7262.1	7220.6
22.5°	10214.8	10336.2	10265.5	9944.4	9515.8	9021.1	8478.8	7807.5	7068.5	6619.9	6552.3
25°	10920.0	10959.9	10715.7	10231.7	9569.6	8941.2	8249.9	7383.4	6504.7	6082.2	6062.2
27.5°	11668.2	11577.5	11122.8	10363.8	9509.7	8704.6	7790.6	6713.6	5994.6	5621.3	5562.9
30°	12513.1	12302.7	11459.2	10377.7	9283.8	8243.8	7209.8	6189.7	5579.8	5205.0	5145.1
32.5°	13600.8	13104.6	11771.1	10234.8	8807.6	7567.8	6512.4	5742.7	5206.5	4830.1	4776.3
35°	14991.2	14153.9	12101.4	9976.7	8220.7	6891.8	5934.7	5363.2	4903.9	4450.6	4378.4
37.5°	16593.5	15618.0	12496.2	9651.0	7577.0	6297.3	5544.5	5122.0	4679.6	4166.4	4080.4
40°	18455.5	17083.6	13104.6	9262.3	6999.4	5868.6	5355.5	5039.0	4555.1	4020.5	3922.2
42.5°	20068.6	18633.7	13828.2	8844.5	6454.0	5512.2	5271.0	4983.7	4476.8	3911.4	3799.3
45°	21560.4	19913.5	14534.9	8337.5	5879.4	5268.0	5169.6	4845.5	4338.5	3776.2	3659.5
47.5°	22772.5	20947.4	15149.4	7872.0	5420.1	5043.7	4948.4	4582.8	4106.5	3613.4	3527.3
50°	23703.5	21724.8	15485.9	7501.7	4934.6	4788.6	4662.7	4286.3	3828.4	3402.9	3329.2
52.5°	24656.0	22503.7	15651.8	7520.2	4482.9	4409.2	4280.1	3957.5	3607.2	3280.0	3200.1
55°	25210.6	22823.2	15476.6	7073.1	4068.1	3982.1	3869.9	3702.5	3493.5	3203.2	3127.9
57.5°	25534.8	23021.4	14943.5	5768.8	3568.8	3487.4	3505.8	3492.0	3319.9	3014.2	2945.1
60°	25768.3	22591.2	13851.2	4240.2	3143.3	3081.8	3233.9	3184.7	3035.7	2797.6	2739.2
62.5°	25579.3	21772.4	11884.8	3187.8	2796.1	2926.6	3060.3	2969.7	2766.9	2550.3	2482.7
65°	24427.1	20165.4	9033.4	2561.0	2683.9	2863.7	2971.2	2825.2	2619.4	2362.8	2332.1
67.5°	22330.1	17252.6	5327.9	2347.5	2599.4	2789.9	2879.0	2685.4	2504.2	2258.4	2221.5
70°	19130.0	12915.6	2379.7	2186.1	2451.9	2640.9	2699.3	2516.5	2319.8	2089.4	2052.5
72.5°	14238.4	7787.5	1603.9	2018.7	2233.8	2401.2	2465.8	2272.2	2132.4	2027.9	2017.2
75°	7907.3	2703.9	1479.5	1828.2	1995.6	2146.2	2226.1	2089.4	1978.7	1835.9	1777.5
77.5°	2518.0	1149.1	1405.7	1634.6	1846.6	1971.1	1958.8	1752.9	1717.6	1544.0	1528.6
80°	1004.7	1001.7	1299.7	1338.1	1576.2	1680.7	1653.1	1393.4	1439.5	1338.1	1298.2
82.5°	788.1	917.2	1041.6	1021.6	1226.0	1348.9	1310.5	1023.2	1156.8	1063.1	972.5
85°	599.2	803.5	668.3	665.2	855.7	1001.7	1026.2	786.6	788.1	717.4	639.1
87.5°	308.8	296.5	256.6	255.0	285.8	407.1	499.3	447.1	353.3	265.8	255.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)